LAKE HAVASU CITY, ARIZONA

ADDENDUM NO. 1

TO

WATER CONSERVATION PROGRAM IMPLEMENTATION
PACKAGE NO. 2
LAKE HAVASU CITY PROJECT NO. SS2970

The following are changes and/or clarifications to the specification, contract documents, and drawings for the above-referenced project. The contents of this Addendum may affect pricing in the proposal; therefore, notification of receipt of this Addendum must appear on the Bid Form at the time of the bid opening.

LAKE HAVASU CITY, ARIZONA

WATER CONSERVATION PROGRAM IMPLEMENTATION PACKAGE NO. 2

ADDENDUM NO. 1 TO LAKE HAVASU CITY PROJECT NO. SS2970 SEPTEMBER 21, 2016

Contract Specifications:

1. DETAIL SPECIFICATION: SECTION 00020 NOTICE INVITING BIDS

Revise the first paragraph on page 00020-1 as follows:

This project consists of converting the irrigation water source at various locations along Arizona Highway 95 and at Cypress Park, Jack Hardie Park, and the ASU Campus from potable water to reclaimed water. This will involve disconnecting the landscape irrigation connections along the highway, the parks, and ASU campus irrigation systems from potable water service and reconnecting them to reclaimed water lines. The project includes the installation of approximately 1,260 linear feet of 4-inch DR 18 PVC, approximately 1,140 linear feet of 4-inch Schedule 80 PVC, and approximately 670 linear feet of 2-inch Schedule 80 PVC, associated tapping saddles, gate valves, fittings and appurtenances, and landscaping and surface replacement for areas disturbed by the work, and associated electrical and instrumentation. The project also includes installation of new motorized valves in valve vaults at the intersection of Smoketree and Arizona Highway 95, a new motorized valve in valve vault at Oak Drive south of the existing reclaimed water connection, modifications to an existing lift station, including a new hydropneumatic tank and associated appurtenances at the Mulberry Wastewater Treatment Plant, and a packaged reuse booster pump station at the Island Wastewater Treatment Plant.

2. DETAIL SPECIFICATION: SECTION 00310 BID SCHEDULE

Replace Section 00310, BID SCHEDULE with attached Section 00310, BID SCHEDULE.

3. DETAIL SPECIFICATION: SECTION 00800 SPECIAL PROVISIONS

Revise text in PART 2.0 PROJECT DESCRIPTION as follows:

This project consists of converting the irrigation water source at various locations along Arizona Highway 95 and at Cypress Park, Jack Hardie Park, and the ASU Campus from potable water to reclaimed water. This will involve disconnecting the landscape irrigation connections along the highway, the parks, and ASU campus irrigation systems from potable water service and reconnecting them to reclaimed water lines. The project includes the installation of approximately 1,260 linear feet of 4-inch DR 18 PVC, approximately 1,140 linear feet of 4-inch Schedule 80 PVC, and approximately 670 linear feet of 2-inch Schedule 80 PVC, associated tapping saddles, gate valves, fittings and appurtenances, and landscaping and surface replacement for areas disturbed by the work, and associated electrical and instrumentation. The project also includes installation of new motorized valves in valve vaults at the intersection of Smoketree and Arizona Highway 95, *a new motorized valve in valve vault at Oak Drive south of the existing reclaimed water connection,* modifications to an existing lift station, including a new hydropneumatic tank and associated appurtenances at the Mulberry Wastewater Treatment Plant, and a packaged reuse booster pump station at the Island Wastewater Treatment Plant.

4. DETAIL SPECIFICATION: SECTION 01110 SUMMARY OF WORK

Revise text in PART 1.2.A as follows:

Description of Project: This project consists of converting the irrigation water source at various locations along Arizona Highway 95 and at Cypress Park, Jack Hardie Park, and the ASU Campus from potable water to reclaimed water. This will involve disconnecting the landscape irrigation connections along the highway, the parks, and ASU campus irrigation systems from potable water service and reconnecting them to reclaimed water lines. The project includes the installation of approximately 1,260 linear feet of 4-inch DR 18 PVC, approximately 1,140 linear feet of 4-inch Schedule 80 PVC, and approximately 670 linear feet of 2-inch Schedule 80 PVC, associated tapping saddles, gate valves, fittings and appurtenances, and landscaping and surface replacement for areas disturbed by the work, and associated electrical and instrumentation. The project also includes installation of new motorized valves in valve vaults at the intersection of Smoketree and Arizona Highway 95, a new motorized valve in valve vault at Oak Drive south of the existing reclaimed water connection, modifications to an existing lift station, including a new hydropneumatic tank and associated appurtenances at the Mulberry Wastewater Treatment Plant, and a packaged reuse booster pump station at the Island Wastewater Treatment Plant.

5. DETAIL SPECIFICATION: SECTION 01210 MEASUREMENT AND PAYMENT

Replace Section 01210, MEASUREMENT AND PAYMENT with attached Section 01210, MEASUREMENT AND PAYMENT.

Contract Drawings:

1. DETAIL DRAWING: G-005

Replace Drawing G-005, LOCATION MAPS 2, with attached Drawing G-005, LOCATION MAPS 2.

2. DETAIL DRAWING: C-009A

Replace Drawing C-009A, SITE PLAN WALNUT DR TO CONTROLLERS, with attached Drawing C-009A, SITE PLAN WALNUT DR TO CONTROLLERS.

3. DETAIL DRAWING: M-001

Replace Drawing M-001, MULBERRY WWTP HYDROPNEUMATIC TANK AND PIPING MODIFICATIONS, with attached Drawing M-001, MULBERRY WWTP HYDROPNEUMATIC TANK AND PIPING MODIFICATIONS.

4. DETAIL DRAWING: M-002

Replace Drawing M-002, ISLAND EFFLUENT REUSE PUMP STATION, with attached Drawing M-002, ISLAND EFFLUENT REUSE PUMP STATION.

5. DETAIL DRAWING: T-002

Replace Drawing T-002, TYPICAL DETAILS II, with attached Drawing T-002, TYPICAL DETAILS II.

6. DETAIL DRAWING: E-003

Replace Drawing E-003, ELECTRICAL AND PROGRAMMING SPECIFICATIONS, with attached Drawing E-003, ELECTRICAL AND PROGRAMMING SPECIFICATIONS.

7. DETAIL DRAWING: E-010

Add Drawing E-010, MULBERRY PLANT SITE PLAN.

Addendum No. 1 pages AD1-1 through AD1-5, and all attachments, shall become part of CONTRACT and all provisions of CONTRACT shall apply thereto.

The time provided for completion of CONTRACT is not changed.

Bidders shall acknowledge receipt of this Addendum No. 1 in the space provided in the Bid Form. Failure to acknowledge receipt of all addenda will render the bid non-responsive.



Keli A. Callahan, P.E. Carollo Engineers, Inc. 376 East Warm Springs Road, Suite 250 Las Vegas, NV 89119 (702) 792-3711

ATTACHMENTS TO

LAKE HAVASU CITY, ARIZONA

ADDENDUM NO. 1

TO

WATER CONSERVATION PROGRAM IMPLEMENTATION PACKAGE NO. 2
LAKE HAVASU CITY PROJECT NO. SS2970

List of Attachments

Specifications		<u>Pages</u>
00310	BID SCHEDULE	1:4
01210	MEASUREMENT AND PAYMENT	1:10

Revised Drawings

G-005	LOCATION MAPS 2
C-009A	SITE PLAN WALNUT DR TO CONTROLLERS
M-001	MULBERRY WWTP HYDROPNEUMATIC TANK AND PIPING MODIFICATIONS
M-002	ISLAND EFFLUENT REUSE PUMP STATION
T-002	TYPICAL DETAILS II
E-003	ELECTRICAL AND PROGRAMMING SPECIFICATIONS

New Drawings

E-010 MULBERRY PLANT SITE PLAN

BID SCHEDULE LAKE HAVASU CITY

Water Conservation Program Implementation Package No. 2 Project No. SS2970

Lake Havasu City Council Lake Havasu City 2330 N. McCulloch Boulevard Lake Havasu City, AZ 86403

The City Council:

Pursuant to request for bids to be opened the 28th day of September, 2016 at 3:00 P.M., Arizona Time, at Room 109 of Lake Havasu City Hall, for the above project, the Contractor proposes to complete work, including furnishing all labor and materials, per the Specifications and Plans at the Following prices.

This Schedule of Items and Prices shall be completed in ink or typed by the Bidding Contractor. In case of discrepancy between the word and figure amount description, the word description shall control extensions.

Prices must be entered for each item and the appropriate subtotal and total blank shall be filled out. Bid prices shall include sales tax and all other applicable taxes and fees.

Bidder agrees to perform all the necessary work to complete the **Water Conservation Program Implementation Package No. 2, Project No. SS2970.** See Section 01210, Measurement and Payment, for descriptions of Bid Items listed in Section 00310.

Revised 3/14/12 00310-1 Water Conservation Program Implementation, Package No. 2

Addendum No. 1

ITEM <u>NO.</u>	DESCRIPTION	ESTIMATED QUANTITY	UNIT OF <u>MEASURE</u>	UNIT PRICE ¹ (Word & Figure Amount)	ITEM TOTAL COSTS ²
	BASE BID				
2.2.1	Mobilization, Demobilization, Bonds, and Insurance	1	L.S.	\$	\$
2.2.2	Construction Staking	1	L.S.	\$	\$
2.2.3	Location A Connections - W Acoma Blvd-Industrial Blvd	1	L.S.	\$	\$
2.2.4	Location B Connections - Paseo Del Sol	1	L.S.	\$	\$
2.2.5	Location C Connections - S Palo Verde Blvd	1	L.S.	\$	\$

Revised 3/14/12 00310-2 Water Conservation Program Implementation, Package No. 2

Addendum No. 1

¹ The "Unit Price" column shall indicate unit or lump sum prices for each bid item and shall be indicated in written and numerical form.

² The "Item Total Costs" column shall indicate the extension of the unit prices, which is obtained by multiplying the "Estimated Quantity" column by the "Unit Price" column.

2.2.6	Location D Connections - McCulloch Blvd N-Swanson Ave	1	L.S.	\$ \$
2.2.7	Location E Connection - S Smoketree Ave	1	L.S.	\$ \$
2.2.8	Location F Connection - Lake Havasu City Aquatic Center		L.S.	\$ \$
2.2.9	Location G Connection - Walnut Dr	1	L.S.	\$ \$
2.2.10	Location G Connection - Walnut Dr Electrical and Instrumentation	1	L.S.	\$ \$
2.2.11	Location H Connections - Cypress Park	1	L.S.	\$ \$
2.2.12	Location I Connections - ASU Campus	1	L.S.	\$ \$
2.2.13	Location J Connections - Jack Hardie Park	1	L.S.	\$ \$
2.2.14	Mulberry WWTP Hydropneumatic Tank	1	L.S.	\$ \$

Revised 3/14/12 00310-3 Water Conservation Program Implementation, Package No. 2

Addendum No. 1

2.2.15	Mulberry WWTP Hydropneumatic Tank Installation	1	L.S.	\$ \$
2.2.16	Mulberry WWTP Hydropneumatic Tank Electrical and Instrumentation	1	L.S.	\$ \$
2.2.17	Mulberry WWTP Hydropneumatic Tank System Integration	1	L.S.	\$ \$
2.2.18	Island WWTP Reuse Package Booster Pump Station	1	L.S.	\$ \$
2.2.19	Island WWTP Reuse Package Booster Pump Station Installation	1 1	L.S.	\$ \$
2.2.20	Island WWTP Reuse Package Booster Pump Station Electrical and Instrumentation	1	L.S.	\$ \$
2.2.21	Island WWTP Reuse Package Booster Pump Station System Integration	1	L.S.	\$ \$
Revised 3/1 Water Cons	4/12 ervation Program Implementation,	003° Package No. 2		eptember 2016 Project SS2970

Water Conservation Program Implementation, Package No. 2 pw:\\Carollo/Documents\Client/AZ/Havasu/9800A10/Specifications/Package No. 02\SECTION 00310_REVISED2012_0314.doc

2.2.22	18-inch Reuse Line Motor Operated Valves and Valve Vaults at Smoketree and AZ 95	1	L.S.	\$ \$
2.2.23	18-inch Reuse Line Motor Operated Valves and Valve Vaults at Smoketree and AZ 95 Electrical and Instrumentation	1	L.S.	\$ \$
2.2.24	18-inch Reuse Line Motor Operated Valves and Vaults at Smoketree and AZ 95 System Integration	1	L.S.	\$ \$
2.2.25	Oak Drive Line Motor Operated Valve and Valve Vault from Mulberry WWTP	1	L.S.	\$ \$
2.2.26	Oak Drive Line Motor Operated Valve and Valve Vault from Mulberry WWTP Electrical and Instrumen	1 tation	L.S.	\$ \$

00310-5

Water Conservation Program Implementation, Package No. 2 pw:\\Carollo/Documents\Client/AZ/Havasu/9800A10/Specifications/Package No. 02\SECTION 00310_REVISED2012_0314.doc

Revised 3/14/12

Addendum No. 1 September 2016 Project SS2970

2.2.27	Oak Drive Line Motor Operated Valve and Valve Vault from Mulberry WWTP System Integration	1	L.S.	\$	\$
2.2.28	Environmental Control Measures	1	L.S.	\$	\$
2.2.29	Dye Testing	1	L.S.	\$	\$
2.2.30	All Other Work Not Included in Items 2.2.1 through 2.2.29	1	L.S.	\$	\$
2.2.31	Force Account	1	L.S.	\$ <u>20,000</u> Twenty Thousand Dollars and no cents	\$ 20,000
			BID TOTAL +	FORCE ACCOUNT \$	

The unit prices for **Water Conservation Program Implementation Package No. 2, Project No. SS2970** shall include all labor, materials, water disposal, bailing, shoring, removal, disposal, overhead, profit, insurance, and all other related costs and work to cover the finished work of the several kinds called for. Changes in the Contract shall be processed in accordance with Paragraph 16 of the General Conditions.

Bidder understands that the Owner reserves the right to reject any or all Bids, or portions thereof, and to waive any informalities in the bidding.

The Bidder agrees that this Bid shall be good and may not be withdrawn for a period of ninety (90) calendar days after the scheduled closing time for receiving Bids.

Upon receipt of written notice of the acceptance of this Bid, Bidder shall execute the formal Contract attached within 10 days and deliver a Performance Bond, Payment Bond, and Certificates of Insurance as required by Paragraph 25 of the General Conditions and the Special Provisions.

Owner in the	event the Contract and Bond(s) are not e	is to become the property of the executed and provided within the time above tional expense to the Owner caused thereby.
Bidder hereb	y acknowledges receipt of the following	Addenda:,
RESPECTFUL	LY SUBMITTED BY:	
BY:		
TITLE:		
FIRM:		
ADDRESS:		
PHONE:	FAX	-
Seal - if Bid b	by a corporation	
A7 Contracto	or's License No: Type	

** END OF SECTION **

SECTION 01210 MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.1 Description

The outline of measurement and payment in this section is intended to provide a general guideline to the Contractor in preparing bids and submitting pay requests. Listing of work included in each bid item is not intended to include all work, but is to provide general guidance to the Contractor for allocating costs. All work will be paid for on a unit price basis with payment made for the quantity of each item completed.

All materials required for construction shall be furnished by the Contractor unless specifically stated. Items not specifically measured and paid for shall be considered as subsidiary items required to complete the installation in accordance with the intent of the contract documents. The Contractor shall include in the unit price bid items, all costs associated with subsidiary items not being measured for payment.

1.2 Authority

Measurement methods delineated in the individual specification sections complement the criteria of this section. In the event of conflict, the requirements of the individual specification section govern.

Take all measurements and compute quantities. The Engineer will verify measurements and quantities.

1.3 Unit Quantities

Quantities indicated in the Bid Form are for bidding and contract purpose only. Quantities and measurements supplied or placed in the Work and verified by the Engineer shall determine payment.

If the actual Work requires more or fewer quantities than indicated, provide the required quantities at the unit prices contracted.

PART 2 – UNITS AND METHODS OF MEASUREMENT AND PAYMENT

2.1 General

All items that are included in the bid for measurement and payment are included herein. All other items of work shall be considered subsidiary to construction and will not be measured for payment.

2.2 UNITS AND METHODS OF MEASUREMENT

2.2.1 Mobilization, Demobilization, Bonds, and Insurance

The Contract Lump Sum Price for "Mobilization, Demobilization, Bonds, and Insurance" shall constitute full compensation for furnishing all materials, labor, equipment, and tools for all required bonds, insurance, mobilization, demobilization of staff and equipment, and any other costs associated with complying with the contract administrative requirements and commencing work at the project site.

Payment for Mobilization, Demobilization, Bonds, and Insurance shall be lump sum and shall not be requested until at least thirty days from the notice to proceed has elapsed.

Payment for this item shall be made in accordance with Table A.

TABLE A

Payment for Mobilization or	n First	Not to exceed 2.5% of the Total Bid
Partial Payment		+ Force Amount
Subsequent payments	for	Not to exceed 2.5% of Total Bid +
Mobilization		Force Amount
Payment for Mobilization or	n Final	Any remaining Mobilization in excess
Partial Payment		of 5% Total Bid + Force Amount

2.2.2 Construction Staking

The quantity of "Construction Staking" measured for payment shall be lump sum.

The Contract lump sum price for "Construction Staking" shall constitute full compensation for furnishing all materials, labor, equipment and tools for the construction staking of all force main and any other piping, connections to irrigation systems, and all other related items. This item also includes all work and materials necessary to complete the work as described in the Plans and Specifications.

2.2.3 Location A Connections – W Acoma Blvd-Industrial Blvd

The quantity of "Location A Connections - W Acoma Blvd-Industrial Blvd" measured for payment shall be lump sum.

The Contract lump sum price for "Location A Connections - W Acoma Blvd-Industrial Blvd" shall constitute full compensation for furnishing all materials, labor, equipment, and tools necessary to disconnect the potable water supply from and connect the reclaimed water supply to the landscape irrigation system. This item includes but is not limited to all traffic control, utility locating, excavation, backfill, compaction required for the construction of the connection, the capping and removal of interfering portions of existing 2-inch

potable water main, installation of a 2-inch tapping valve on the existing 18-inch reclaimed water main, and installing 2-inch PVC Schedule 80 reclaimed water pipe including all fittings, gate valves, pipe locator ribbon, PRV including box, meter assembly including box, and testing as shown on the Drawings. This item also includes any surface repair in the landscape and elsewhere as required for the construction of the connection. This item also includes all work and materials necessary to complete the work in accordance with the Plans and Specifications.

2.2.4 Location B Connections – Paseo Del Sol

The quantity of "Location B Connections - Paseo Del Sol" measured for payment shall be lump sum.

The Contract lump sum price for "Location B Connections - Paseo Del Sol" shall constitute full compensation for furnishing all materials, labor, equipment, and tools necessary to disconnect the potable water supply from and connect the reclaimed water supply to the landscape irrigation system. This item includes but is not limited to all traffic control, utility location, excavation, backfill, compaction required for the construction of the 4-inch fusible and standard PVC C900 (DR 18) force main, connections, the capping and removal of interfering portions of the existing 2-inch potable water main, installation of a 4-inch tapping valve on the existing 18-inch reclaimed water main, and installing 2-inch PVC Schedule 80 reclaimed water pipe including all fittings, gate valves, restrained joints and/or thrust blocks, tape-wrap coating of ductile iron pipe fittings, and pipe locator ribbon, and meter assembly including vault as shown on the Drawings. This item also includes any surface repair in the roadway, landscape and elsewhere as required for the construction of the connection. This item also includes all work and materials necessary to complete the work in accordance with the Plans and Specifications.

2.2.5 Location C Connections - S Palo Verde Blvd

The quantity of "Location C Connections - S Palo Verde Blvd" measured for payment shall be lump sum.

The Contract lump sum price for "Location C Connections - S Palo Verde Blvd" shall constitute full compensation for furnishing all materials, labor, equipment, and tools necessary to disconnect the potable water supply from and connect the reclaimed water supply to the landscape irrigation system. This item includes but is not limited to all traffic control, utility locating, excavation, backfill, compaction required for the construction of the connection, the capping and removal of interfering portions of the existing 2-inch potable water main, salvage of existing water meter and irrigation loop to LHC, installation of a 2-inch tapping valve on the existing 18-inch reclaimed water main, and installing 2-inch PVC Schedule 80 reclaimed water pipe including all fittings, gate valves, pipe locator ribbon, PRV including box, meter assembly including box, and testing as shown on the Drawings. This item also includes any surface repair in the landscape and elsewhere as required for the

construction of the connection. This item also includes all work and materials necessary to complete the work in accordance with the Plans and Specifications.

2.2.6 Location D Connections – McCulloch Blvd N-Swanson Ave

The quantity of "Location D Connections - McCulloch Blvd N-Swanson Ave" measured for payment shall be lump sum.

The Contract lump sum price for "Location D Connections - McCulloch Blvd N-Swanson Ave" shall constitute full compensation for furnishing all materials, labor, equipment, and tools necessary to disconnect the potable water supply from and connect the reclaimed water supply to the landscape irrigation system. This item includes but is not limited to all traffic control, utility locating, excavation, backfill, compaction required for the construction of the connections, 4-inch PVC C900 (DR 18) force main, installation of a 4-inch tapping valve on the existing 18-inch reclaimed water main, the capping and removal of interfering portions of the existing 1-1/4 inch and 1-1/2 inch potable water main, and installing 1-1/2 inch and 2-inch PVC Schedule 80 reclaimed water pipe including all fittings, gate valves, pipe locator ribbon, PRV including box, meter assembly including box, and testing as shown on the Drawings. This item also includes any surface repair in the landscape and elsewhere as required for the construction of the connection. This item also includes all work and materials necessary to complete the work in accordance with the Plans and Specifications.

2.2.7 Location E Connection - S Smoketree Ave

The quantity of "Location E Connection - S Smoketree Ave" measured for payment shall be lump sum.

The Contract lump sum price for "Location E Connection - S Smoketree Ave" shall constitute full compensation for furnishing all materials, labor, equipment, and tools necessary to disconnect the potable water supply from the landscape irrigation system. This item includes but is not limited to capping and removal of existing irrigation loop and salvage of existing irrigation loop to LHC as shown on the Drawings. This item also includes any surface repair in the landscape and elsewhere as required for the construction of the connection. This item also includes all work and materials necessary to complete the work in accordance with the Plans and Specifications.

2.2.8 Location F Connection – Lake Havasu City Aquatic Center

The quantity of "Location F Connection - Lake Havasu City Aquatic Center" measured for payment shall be lump sum.

The Contract lump sum price for "Location F Connection - Lake Havasu City Aquatic Center" shall constitute full compensation for furnishing all materials, labor, equipment, and tools necessary to disconnect the potable water supply

from and connect the reclaimed water supply to the landscape irrigation system. This item includes but is not limited to all traffic control, utility locating, excavation, backfill, compaction required for the construction of the connections, the capping and removal of interfering portions of the existing 2-inch potable water main, installation of a 2-inch tapping valve on the existing 18-inch reclaimed water main, and installing 2-inch PVC Schedule 80 reclaimed water pipe including all fittings, gate valves, restrained joints and/or thrust blocks, and pipe locator ribbon as shown on the Drawings. This item also includes any surface repair in the landscape and elsewhere as required for the construction of the connection. This item also includes all work and materials necessary to complete the work in accordance with the Plans and Specifications.

2.2.9 Location G Connection – Walnut Dr

The quantity of "Location G Connection - Walnut Dr" measured for payment shall be lump sum.

The Contract lump sum price for "Location G Connection - Walnut Dr" shall constitute full compensation for furnishing all materials, labor, equipment, and tools necessary to connect the reclaimed water supply to the landscape irrigation system. This item includes but is not limited to all traffic control, utility locating, excavation, backfill, compaction required for the construction of the connection, installation of a 4-inch tapping valve on the existing 18-inch reclaimed water main, and installing 4-inch PVC C-900 (DR 18) reclaimed water pipe including all fittings, gate valves, restrained joints and/or thrust blocks, tape-wrap coating of ductile iron pipe fittings, meter assembly including vault, pipe loop assembly, and pipe locator ribbon as shown on the Drawings. This item also includes any surface repair in the landscape and elsewhere as required for the construction of the connection. This item also includes all work and materials necessary to complete the work in accordance with the Plans and Specifications.

2.2.10 Location G Connection – Walnut Dr Electrical and Instrumentation

The quantity of "Location G Connection - Walnut Dr Electrical and Instrumentation" measured for payment shall be lump sum.

The contract lump sum price for "Location G Connection - Walnut Dr Electrical and Instrumentation" shall be full compensation for furnishing all materials, labor, equipment and tools to install all conduits, pull boxes, cable, etc. to complete the work in accordance with the Plans and Specifications.

2.2.11 Location H Connections - Cypress Park

The quantity of "Location H - Cypress Park" measured for payment shall be lump sum.

The Contract lump sum price for "Location H - Cypress Park" shall constitute full compensation for furnishing all materials, labor, equipment, and tools necessary to disconnect the potable water supply from and connect the reclaimed water supply to the park's irrigation system. This item includes but is not limited to all traffic control, utility locating, excavation, backfill, compaction required for the construction of the 4-inch PVC C900 (DR 18) force main, 8-inch fusible PVC C900 (DR 18) force main, 3-inch PVC Schedule 80 reclaimed water piping, connections, the capping and removal of interfering portions of the existing 3-inch potable water main, installation of a 4-inch and 8-inch tapping valve on the existing 8-inch reclaimed water main, and installing 4-inch irrigation loop including all electrical wiring, fittings, gate valves, restrained joints and/or thrust blocks, tape-wrap coating of ductile iron pipe fittings, and pipe locator ribbon as shown on the Drawings. This item also includes any surface repair in the roadway, landscape and elsewhere as required for the construction of the connection. This item also includes all work and materials necessary to complete the work in accordance with the Plans and Specifications.

2.2.12 Location I Connections – ASU Campus

The quantity of "Location I Connections- ASU Campus" measured for payment shall be lump sum.

The Contract lump sum price for "Location I Connections - ASU Campus" shall constitute full compensation for furnishing all materials, labor, equipment, and tools necessary to disconnect the potable water supply from and connect the reclaimed water supply to the ASU Campus irrigation system. This item includes but is not limited to all traffic control, utility locating, excavation, backfill, compaction required for the construction of the 4-inch PVC C900 (DR 18) force main, connections, the capping and removal of interfering portions of the existing 2-inch potable water main, and installing 2-inch PVC Schedule 80 reclaimed water pipe and 2-inch copper piping, and modifications to existing irrigation loop including all fittings, gate valves, restrained joints and/or thrust blocks, tape-wrap coating of ductile iron pipe fittings, PRV including box, meter assembly including vault, and pipe locator ribbon as shown on the Drawings. This item also includes any surface repair in the roadway, curb, gutter, sidewalk, landscape and elsewhere as required for the construction of the connection. This item also includes all work and materials necessary to complete the work in accordance with the Plans and Specifications.

2.2.13 Location J Connections – Jack Hardie Park

The quantity of "Location J Connections - Jack Hardie Park" measured for payment shall be lump sum.

The Contract lump sum price for "Location J Connections - Jack Hardie Park" shall constitute full compensation for furnishing all materials, labor, equipment, and tools necessary to disconnect the potable water supply from and connect the reclaimed water supply to the park's irrigation system. This item includes but is not limited to all traffic control, utility locating, excavation, backfill, compaction required for the construction of the 2-inch PVC Schedule 80 force main, connections, the capping and removal of interfering portions of the existing 2-inch potable water main, gate valves, restrained joints and/or thrust blocks, and pipe locator ribbon as shown on the Drawings. This item also includes any surface repair in the landscape and elsewhere as required for the construction of the connection. This item also includes all work and materials necessary to complete the work in accordance with the Plans and Specifications.

2.2.14 Mulberry WWTP Hydropneumatic Tank

The quantity of "Mulberry WWTP Hydropneumatic Tank" measured for payment shall be lump sum.

The Contract lump sum price for "Mulberry WWTP Hydropneumatic Tank" shall constitute full compensation for procuring the pumping system as specified in Section 13206G.

2.2.15 Mulberry WWTP Hydropneumatic Tank Installation

The quantity of "Mulberry WWTP Hydropneumatic Tank Installation" measured for payment shall be lump sum.

The contract lump sum price for "Mulberry WWTP Hydropneumatic Tank Installation" shall be full compensation for furnishing all materials, labor, equipment, and tools to fully install the Hydropneumatic Tank including piping, excavation, backfill, concrete, pipe supports, equipment supports, testing, and all other appurtenances not included in item 2.2.14, but required for complete and operational Hydropneumatic Tank system.

2.2.16 Mulberry WWTP Hydropneumatic Tank Electrical and Instrumentation

The quantity of "Mulberry WWTP Electrical and Instrumentation" measured for payment shall be lump sum.

The Contract lump sum price for "Mulberry WWTP Electrical and Instrumentation" shall constitute full compensation for furnishing all materials, labor, equipment, and tools necessary to modify the electrical, control and instrumentation systems associated with the new hydropneumatic tank.

2.2.17 Mulberry WWTP Hydropneumatic Tank System Integration

The quantity of "Mulberry WWTP System Integration" measured for payment shall be lump sum.

The contract lump sum price for "Mulberry WWTP System Integration" shall be full compensation for furnishing all materials, labor, equipment and tools to install perform all system integration required to provide a complete operating system in accordance with the Plans and Specifications.

2.2.18 Island WWTP Reuse Package Booster Pump Station

The quantity of "Island WWTP Reuse Package Booster Pump Station" measured for payment shall be lump sum.

The Contract lump sum price for "Island WWTP Reuse Package Booster Pump Station" shall constitute full compensation for procuring the pumping system as specified in Section 11211.

2.2.19 Island WWTP Reuse Package Booster Pump Station Installation

The quantity of "Island WWTP Reuse Package Booster Pump Station Installation" measured for payment shall be lump sum.

The contract lump sum price for "Island WWTP Reuse Package Booster Pump Station Installation" shall be full compensation for furnishing all materials, labor, equipment, and tools to fully install the Island WWTP Reuse Package Booster Pump Station including piping, excavation, backfill, concrete, pipe supports, equipment supports, testing, and all other appurtenances not included in item 2.2.18, but required for complete and operational Booster Pump Station.

2.2.20 Island WWTP Reuse Package Booster Pump Station Electrical and Instrumentation

The quantity of "Island WWTP Reuse Package Booster Pump Station Electrical and Instrumentation" measured for payment shall be lump sum.

The contract lump sum price for "Island WWTP Reuse Package Booster Pump Station Electrical and Instrumentation" shall be full compensation for furnishing all materials, labor, equipment and tools to install all conduits, cable, electrical supports, etc. to complete the work in accordance with the Plans and Specifications.

2.2.21 Island WWTP Reuse Package Booster Pump Station System Integration

The quantity of "Island WWTP Reuse Package Booster Pump Station System Integration" measured for payment shall be lump sum.

The contract lump sum price for "Island WWTP Reuse Package Booster Pump Station System Integration" shall be full compensation for furnishing all materials, labor, equipment and tools to install perform all system integration required to provide a complete operating system in accordance with the Plans and Specifications.

2.2.2218-inch Reuse Line Motor Operated Valves and Valve Vaults at Smoketree and AZ95

The quantity of "18-inch Reuse Line Motor Operated Valves and Valve Vaults at Smoketree and AZ95" measured for payment shall be lump sum.

The contract lump sum price for "18-inch Reuse Line Motor Operated Valves and Valve Vaults at Smoketree and AZ95" shall be full compensation for furnishing all materials, labor, equipment, and tools to fully install the valve vaults and motorized valves including all piping, fittings, concrete, hatches, and other appurtenances except electrical and control to the motor operator.

2.2.2318-inch Reuse Line Motor Operated Valves and Valve Vaults at Smoketree and AZ95 Electrical and Instrumentation

The quantity of "18-inch Reuse Line Motor Operated Valves and Valve Vaults at Smoketree and AZ95 Electrical and Instrumentation" measured for payment shall be lump sum.

The contract lump sum price for "18-inch Reuse Line Motor Operated Valves and Valve Vaults at Smoketree and AZ95 Electrical and Instrumentation" shall be full compensation for furnishing all materials, labor, equipment and tools to install all conduits, cable, electrical supports, etc. to complete the work in accordance with the Plans and Specifications.

2.2.2418-inch Reuse Line Motor Operated Valves and Valve Vaults at Smoketree and AZ95 System Integration

The quantity of "18-inch Reuse Line Moto Operated Valves and Valve Vaults at Smoketree and AZ95 System Integration" measured for payment shall be lump sum.

The contract lump sum price for "18-inch Reuse Line Motor Operated Valves and Valve Vaults at Smoketree and AZ95 System Integration" shall be full compensation for furnishing all materials, labor, equipment and tools to install perform all system integration required to provide a complete operating system in accordance with the Plans and Specifications.

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2.2.25 Oak Drive Line Motor Operated Valve and Valve Vault from Mulberry WWTP

The quantity of "Oak Drive Line Valve and Valve and Vault from Mulberry WWTP" measured for payment shall be lump sum.

The contract lump sum price for "Oak Drive Line Valve and Valve and Vault from Mulberry WWTP" shall be full compensation for furnishing all materials, labor, equipment, and tools to fully install the valve vault and motorized valve including all piping, fittings, concrete, hatches, and other appurtenances except electrical and control to the motor operator.

2.2.26 Oak Drive Line Motor Operated Valve and Valve Vault from Mulberry WWTP Electrical and Instrumentation

The quantity of "Oak Drive Line Valve and Valve and Vault from Mulberry WWTP Electrical and Instrumentation" measured for payment shall be lump sum.

The contract lump sum price for "Oak Drive Line Valve and Valve and Vault from Mulberry WWTP Electrical and Instrumentation" shall be full compensation for furnishing all materials, labor, equipment and tools to install all conduits, cable, electrical supports, etc. to complete the work in accordance with the Plans and Specifications.

2.2.27 Oak Drive Line Motor Operated Valve and Valve Vault from Mulberry WWTP System Integration

The quantity of "Oak Drive Line Valve and Valve and Vault from Mulberry WWTP System Integration" measured for payment shall be lump sum.

The contract lump sum price for "Oak Drive Line Valve and Valve and Vault from Mulberry WWTP System Integration" shall be full compensation for furnishing all materials, labor, equipment and tools to install perform all system integration required to provide a complete operating system in accordance with the Plans and Specifications.

2.2.28 Environmental Control Measures

The quantity of "Environmental Control Measures" measured for payment shall be lump sum.

The contract lump sum price for "Environmental Control Measures" shall be full compensation for furnishing all materials, labor, equipment and tools to comply with the environmental controls to mitigate noise, storm water runoff, preparation of the SWPPP document, dust control, and water quality.

2.2.29 Dye Testing

The quantity of "Dye Testing" measured for payment shall be lump sum.

The contract lump sum price for "Dye Testing" shall be full compensation for furnishing all materials, labor, equipment and tools to conduct dye tests at Industrial Blvd/95, Lake Havasu City Aquatic Center, Cypress Park, ASU campus, and Jack Hardie Park. This item also includes all work and materials necessary to complete the work in accordance with the Plans and Specifications.

2.2.30 All Other Work Not Included In Items 2.2.1 through 2.2.29

The quantity of "All Other Work Not Included in Items 2.2.1 through 2.2.29" measured for payment shall be per lump sum.

Payment for this item is the Contract per lump sum price for "All Other Work Not Included in Items 2.2.1 through 2.2.29" shall constitute full compensation for furnishing all materials, labor, equipment, and tools required to complete the project not specifically identified in Bid Items 2.2.1 through 2.2.29. This item also includes all work and materials necessary to complete the work in accordance with the Plans and Specifications.

2.2.31 Force Account

A force account has been established and is indicated in the Bid Form as a lump sum cost item. The value indicated in the Bid Form is to be included in the total bid price for the work. The Contractor shall not consider any monies indicated in the force account item as a part of his payment for the Work or profit or otherwise without written notification by the Owner.

2.3 Measurement Devices

- **A.** Weigh Scales: Inspected, tested and certified by the applicable State Weights and Measures Department within the past year.
- **B.** Platform Scales: Of sufficient size and capacity to accommodate the conveying vehicle.
- **C.** Metering Devices: Inspected, tested and certified by the applicable State department within the past year.

2.4 Measurement by Weight

Measured by tons as described above.

2.5 Measurement by Volume

Measured by cubic dimension using mean length, width and height or thickness.

2.6 Measurement by Area

Measured by square dimension using mean length and width or radius.

2.7 Linear Measurement

Measured by linear dimension, at the item centerline or meanchord.

2.8 Stipulated Sum/Price Measurement

Items measured by lump sum or each, as appropriate, as a completed item or unit of the work.

2.9 Progress Payments

- **A.** Contract provides for payment of 90% for completed work until final payment.
- **B.** Partial pay estimates must be submitted to the Engineer no later than the 25th of each month. Pay estimates may only include work that has been completed at that time.

2.10 Final Payment

Final payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities accepted by the ENGINEER multiplied by the unit sum/price for work which is incorporated in or made necessary by the Work.

PART 3 – DEFECT ASSESSMENT

- **3.1** Replace the Work, or portions of the work, not conforming to specified requirements.
- **3.2** If, in the opinion of the Engineer, it is not practical to remove and replace the Work, the Engineer will direct one of the following remedies:
 - **A.** The defective Work may remain, but the unit price will be adjusted to a new price at the discretion of the Engineer.
 - **B.** The defective Work will be partially repaired to the instructions of the Engineer, and the unit price will be adjusted to a new price at the discretion of the Engineer.
- **3.3** The individual specification sections may modify these options or may identify a specific formula or percentage sum/price reduction.
- 3.4 The authority of the Engineer to assess the defect and identify payment adjustment is final.

PART 4 – NON-PAYMENT FOR REJECTED PRODUCTS

- **4.1** Payment will not be made for any of the following:
 - **A.** Products wasted or disposed of in a manner that is not acceptable.
 - **B.** Products determined as unacceptable before or after placement.
 - **C.** Products not completely unloaded from the transportation vehicle.
 - **D.** Products placed beyond the lines and levels of the required Work.
 - **E.** Products remaining on hand after completion of the Work.
 - **F.** Loading, hauling and disposing of rejected products.

END OF SECTION 01210











